Emerging Technology

UNIT 1 – INFORMATION TECHNOLOGY SYSTEMS

FARHAN MUKADAM

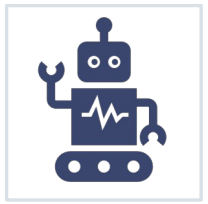
Emerging Technologies

Currently in development

Impact on businesses and society in general

What are Emerging Technologies

Artificial Intelligence



Robotics

Biometrics

Virtual Reality

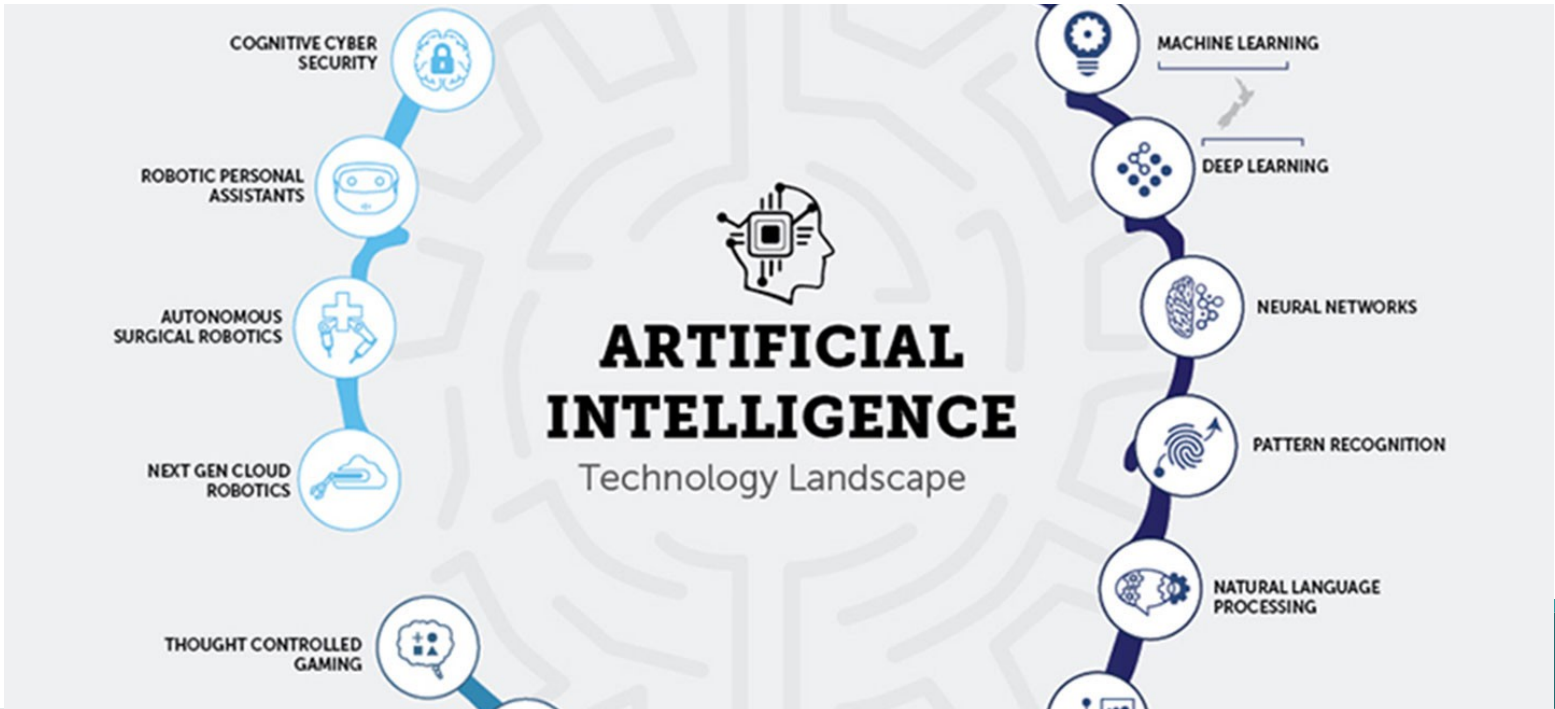
Artificial Intelligence

Simulation of human **intelligence** in machines

Think like humans

Artificial Intelligence at home and work

- Self driving cars, automated vacuum cleaners
- Decision making applications and software



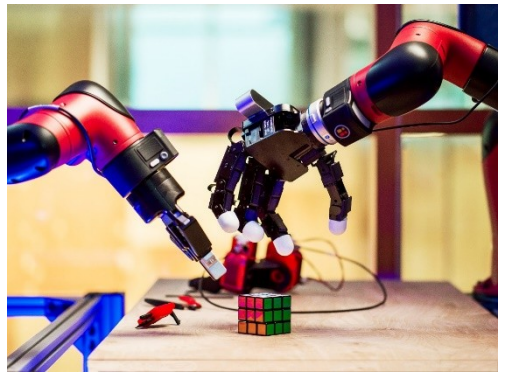
Robotics

Robotics involves design, construction, operation, and use of robots.

Help and assist humans in their day-to-day lives and keep everyone safe

Robotics at home and work

- Smart Speakers (Amazon Echo, Google Home), Nest Cameras, Robots
- Production line workers, machines, surgical procedures, 3D printers



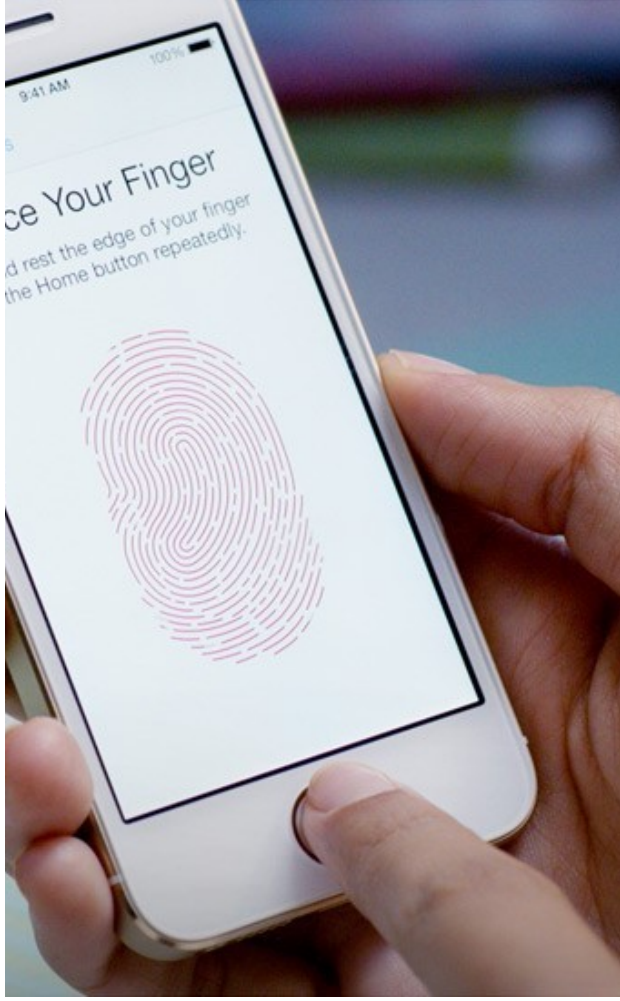
Virtual Reality

Computer-generated simulation

Interact within an artificial three-dimensional environment

VR at home and work

- Computer Games, Home improvement
- Test Products, Training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Biometrics

Implications of Emerging Technologies

Business

- **Cost**
- **Over-Reliance**

Personal

- **Cost**
- **Staff Training**

Implications of Emerging Technologies

Cost – E.g. Games console updates, new versions, additional add on etc

Technologies are ever changing and with new emerging technologies appear all the time. It can be very costly for individuals to keep up. An example is games consoles releasing updated versions to allow the adoption of VR.

Over-Reliance – We have become so reliant on many of these new emerging technologies that if we lost them we often struggle to manage. For example, people who cannot access their smartphones can often become extremely stressed and agitated.

Implications of Emerging Technologies _ Business

Cost – As businesses need to constantly adopt new technology to keep up with competitors this can be very expensive, and can often be a big gamble. For example, purchasing 3D printers to produce components may save money in the long run, but the initial cost of purchase may be quite high.

Staff Training – Implementing emerging technologies will often require significant training to ensure staff can use it. This is a further cost. For example, giving staff new smartwatches to help with their work may require initial training on how to use them effectively.